

ART. VI. A REVIEW OF THE EURYPTERID RAMI OF THE
GENUS PTERYGOTUS WITH THE DESCRIPTIONS
OF TWO NEW DEVONIAN SPECIES.

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Mr. E. R. Eller, of the Carnegie Museum, Pittsburgh, Pennsylvania, has sent me two very small rami of the chelicerae of species of *Pterygotus* which were collected from Devonian rocks. One was obtained by Mr. Eller in the "Chemung" at Alfred Station, New York, and the other, collected many years ago by Dr. P. E. Raymond and Mr. Earl Douglass, from the green shale of the Three Forks shale, at Three Forks, Montana.

Both specimens are the free rami of the chelicerae and are of interest as representing a type of ramus that is different from the usual form with acutely pointed anterior angle as seen typically in *Pterygotus macrophthalmus* and *P. buffaloensis* from the New York Silurian. In the forms before us the anterior extremity of the ramus is well-rounded and terminating in a long, equally rounded tooth. This type of ramus was known to Clarke and Ruedemann* from *P. cobbi*; (op. cit. p. 371) represented by a single specimen from the Silurian Bertie waterlime of New York, and two possibly young fairly perfect specimens of the same species (*P. cobbi* var. *juvenis*, see ibid. p. 430) and a chelicera (ibid. p. 429) comparable in dimensions to the material before us. In Europe the second group is represented by a chelicera of *P. barrandei* Semper. Besides these we have described in Mem. 14 similar detached rami of *P. monroensis* Sarle (see ibid. p. 380) from the Pittsford shale and of *P. atlanticus* (ibid. p. 356) from the Devonian Dalhousie beds of New Brunswick.

As the species of *Pterygotus* are clearly divided into two groups by this striking difference in the form of the chelicerae it seems desirable to distinguish the groups as subgenera, viz:

*Clarke, J. M. and Ruedemann, R. Eurypterida of New York, N. Y. S. Mus. Mem. 14, 1912.

a. **Pterygotus**, subgenus **Acutiramus** nov.

Rami of chelicerae with subrectangular, acutely pointed extremities and vertically placed terminal teeth. Typical of this group are:

Pterygotus buffaloensis Pohlman, type

P. macrophthalmus Hall

P. osiliensis F. Schmidt

b. **Pterygotus**, subgenus **Curviramus** nov.

Rami of chelicerae with rounded extremities and outwardly curved terminal teeth.

Pterygotus cobbi Hall, type

P. cobbi var. *juvenis* Clarke and Ruedemann

P. anglicus Agassiz

P. barrandei Semper

P. monroensis Sarle

P. atlanticus Clarke and Ruedemann

P. elleri Ruedemann

P. montanensis Ruedemann

 EXPLANATION OF PLATE.

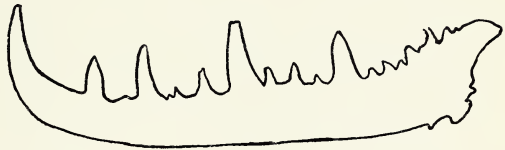
- FIG. 1. *Pterygotus (Acutiramus) buffaloensis* Pohlman. Natural size. From Clarke and Ruedemann.
- FIG. 2. *Pterygotus (Acutiramus) macrophthalmus* Hall. Natural size. From Clarke and Ruedemann.
- FIG. 3. *Pterygotus (Acutiramus) osiliensis* Schmidt. Natural size. From Zittel and Broili.
- FIG. 4. *Pterygotus (Curviramus) cobbi* Hall. $\times \frac{1}{2}$. From Clarke and Ruedemann.
- FIG. 5. *Pterygotus (Curviramus) cobbi* var. *juvenis* Clarke and Ruedemann. Natural size. From Clarke and Ruedemann.
- FIG. 6. *Pterygotus (Curviramus) anglicus* Agassiz. $\times \frac{1}{5}$. From Zittel and Broili.
- FIG. 7. *Pterygotus (Curviramus) barrandei* Semper. $\times \frac{1}{2}$. From Clarke and Ruedemann.
- FIG. 8. *Pterygotus (Curviramus) monroensis* Sarle. $\times 3$. From Clarke and Ruedemann.
- FIG. 9. *Pterygotus (Curviramus) atlanticus* Clarke and Ruedemann. Natural size. From Clarke and Ruedemann.



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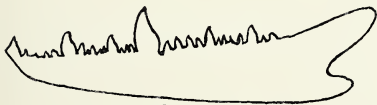
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Eurypterid Rami of the Genus *Pterygotus*.

